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CONFERENCE ON THE OPERATION OF SOVIET RURAL ELECTRICAL INSTALLATION

Engr D. T. Komarov

A conference on problems relating to the operation of rural electrical installations was held 4 - 9 September 1950, in Zaporozh'ye. It was organized by VNIIE (All-Union Scientific and Technical Society of Power Engineers), Glavsel' elektro, MSKh SSSR (Main Administration of Rural Electrification, Ministry of Agriculture USSR) and VIESKh (All-Union Scientific Research Institute for the Electrification of Agriculture). Practical workers in rural electrification from republics, krays, and oblasts of the USSR and representatives of various scientific institutions interested in this topic (over 300 persons in all) participated. Among the more than 20 reports read at the conference the following are worth noting.

A. M. Sarkisyan (Glavsel' elektro) in his paper "Technical Methods of Developing Rural Electrification" pointed out that the power capacity of rural installations in 1950 was 4.5 times greater than in 1945 while the number of electrified kolkhozes was 5.5 times larger. He mentioned various deficiencies in present installations and requirements for improving them and making power available for agricultural purposes.

The report "Local Rural Electric Systems" by A. G. Zakharin showed that construction of local power lines had increased the reliability and economy of electric power supply. After noting that the structure of the system depended on the types of power plants connected to it, the speaker listed several basic technical requirements. He recommended that the upper limit of line power be fixed on the basis of a voltage not exceeding 35 kv and that to simplify system protection and control, three to six, but not more than ten to twelve, stations should be combined. The system should have one or two master stations comprising 50-60 percent of the total power of the system and equipped with frequency regulation.

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I. I. Kodkina, Candidate of Technical Sciences, talked on parallel operation of generators in rural electric stations, maintenance of standard frequency, and operation of protective devices.

The report of N. A. Sazonov, Doctor of Technical Sciences, "Improving Operation of Rural Hydroelectric Stations," discussed standard techniques in these stations and the necessity for operating under full loads and increasing the operating time to 3,000-3,500 hr per year. He also recommended, on the basis of data from VIESKh, the introduction of compound excitation of synchronous generators as a great forward step in the automatization of hydroelectric stations.

L. Ye. Ebin, Candidate of Technical Sciences, in his paper "Basic Problems Relating to the Technical Operation of Rural Electric Installations" noted that the increase in the number of installations in the individual rayons and the construction of larger stations made it necessary to increase operating requirements in regard to quality, reliability, and economy of electric power supply. In this connection, the "Regulations for Technical Operation of Rural Electrical Installations" should be adhered to strictly. A basic task in rural electrification is the preservation and upkeep of those rural stations now in operation.

Engr A. V. Budantsev (Operations Administration, Glavsel' elektro) talked about reliability in rural installations. Although breakdowns had been halved in recent years, statistics for 1949 and the first half of 1950 still showed great deficiencies in practical operation.

Among the other reports were: "Providing Maintenance and Oil Facilities and Production Laboratories for Rural Electric Installations" by Ye. L. Shats, Candidate of Technical Sciences; "Introducing Regulations for the Technical Operation of Rural Electric Installations" by Engr Ya. S. Teplitskiy (Glavsel' - elektro); and "Experiences in Organizing the Operations of Kolkhoz Electric Installations" by A. S. Tarasov (Sverdlovsk "Sel'energo" Office).

Talks were also given by: Engr P. I. Kuz'min (Sverdlovsk Branch of VIESKh) -- "Operating Electric Tractors"; Engr M. K. Kozinskiy (Korsun' - Shevchenovskiy Hydroelectric Power Station) -- "Operating Experience"; Engr G. V. Gornovosov (Zaporozh'ye Branch of VIESKh) -- "Operating Electric Installations on Cattle-Breeding Farms"; Engr P. T. Alikin (Molotov Sel'energo) -- "Operation of the Okhansk Rural Electric System in Molotov Oblast"; Engr M. P. Goryayev (Leningrad Sel'energo) -- "Operation of the Gatchina Rural Electric System in Leningrad Oblast"; Engr P. V. Kuts (VIESKh Lab) -- "Introducing a Combined System of Power Distribution in Rural Districts"; I. S. Kurdiani, Candidate of Technical Sciences -- "Operating 'DPZ' Lines [two wire-ground transmission circuit] in the Georgian SSR"; Engr B. V. Smirnov (VIESKh) -- "Dispatcher Communication in Rural Electric Installations"; Engr A. M. Ganelin (VIESKh) -- "Quick Repairs on Rural Electric Lines".

A full discussion followed. Members of the conference were shown around the Dnepr Hydroelectric Station imeni Lenin and the scientific, experimental establishment of VIESKh on Khortitsa Island, and saw the electric installations of the "Zaporozhstal'" Plant.

The conference passed various resolutions on operating rural electric installations.

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